As a below named inv nt r, I her by d clar that:

This declaration is of the following type:	
☑ original☐ divisional☐ continuation☐ continuation-in-part	
INVENTORSHIP IDENTIFICATION	
My residence, post office address and citizenship are as stated below next to my name. am the original, first and sole inventor (if only one name is listed below) or an original, first inventor (if plural names are listed below) of the subject matter which is claimed and for patent is sought on the invention entitled:	t and joint
INTEGRATED PHASE ANGLE AND OPTICAL CRITICAL DIMENSION MEASURE METROLOGY FOR FEED FORWARD AND FEEDBACK PROCESS CONTRO	
SPECIFICATION IDENTIFICATION	
The specification of which:	
is attached hereto was filed on, under Serial No, executed on even date or Express Mail No.(as Serial No. not yet known) and was amended on (if applicable) was described and claimed in PCT International No filed on and as amended under Article 19 on	Application
ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR	
hereby state that I have reviewed and understand the contents of the above-identified spencluding the claims, as amended by any amendment referred to above.	ecification,
acknowledge the duty to disclose all information I know to be material to patentability in a with Title 37, Code of Federal Regulations, §1.56, and which is material to the examinat application; namely, information where there is a substantial likelihood that a reasonable would consider it important in deciding whether to allow the application to issue as a patent,	ion of this Examiner
In compliance with this duty there is attached an Information Disclosure Staccordance with 37 CFR §1.98.	atement in

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any provisional or foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any provisional or foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

	⊠ No su	ıch applications have	been filed.	
	Such	applications have be	en filed as follows:	
A.			filed within 12 mos. (6 ms under 35 U.S.C. §119	mos. for design) prior to this
	Country/PC	T Application No	Date Filed	Priority Claimed
				☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No
B.	All foreign ap U.S. applicat		filed more than 12 mos. (6 mos for design) prior to this
	Country: Application No Filing date:	o :		
C.	U.S. Provisio	nal Application filed	within 12 months prior	to this application
	Serial No.		Filing Date	
		PRIORITY	′ CLAIM (35 U.S.C. §120)	
applica listed b in that/ States of this Examin which of	tion(s) or PCT elow and, inso those prior ap Code, §112, I application (r ner would consi	international application as the subject match plication(s) in the macknowledge the duty amely, information ider it important in detent the filing date of the	ion(s) designating the Unit tter of each of the claims of anner provided by the firsty to disclose information the where there is substantic ciding whether to allow the	e, §120, of any United States ted States of America that is/are f this application is not disclosed at paragraph of Title 35, United at is material to the examination al likelihood that a reasonable application to issue as a patent) the national or PCT international
		ich applications have applications have be		
	Serial No.	Filing Date	Patented	Status Pending Abandoned

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Donald Verplancken Registration No. 33,217 Peter J. Sgarbossa Registration No. 25,610 Raymond Kam-On Kwong Registration No. 37,165 Joseph Bach Registration No. 37,771 James C. Wilson Registration No. 35,412 Robert W. Mulcahy Registration No. 25,436 B. Todd Patterson Registration No. 37,906 Raymond R. Moser, Jr. Registration No. 34,682 Keith M. Tackett Registration No. 32,008

Send correspondence to:

Direct telephone calls to:

Patent Counsel Applied Materials, Inc. P.O. Box 450-A Santa Clara, CA 95052 B. Todd Patterson

Moser, Patterson & Sheridan, L.L.P. (713) 623-4844

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of sole or fit	rst inventor:	ALFRED W. MAK		
Inventor's signature:	Mus 1	Vale	_ Date:	11/4/03
Residence:	32722 Fellows Union City, CA			•
Post Office Address:	Same as above			
	U.S.A.	Country of Citizenship: U	SA	
Full name of second in	ventor: Yung-I	HEE YVETTE LEE		
Inventor's signature:	Grette	Lee	_ Date:	11/11/0-3
Residence:	71/6/7 Brisbane			
Post Office Address:	Sán Jose, CA 9 Same as above			
Tost Office Address.	U.S.A.	Country of Citizenship: U	SA	
Full name of third inve	ntor: Сүнтні	A B. BROOKS		
Inventor's signature:			Date:	
Residence:	111 Franklin Bl		_	
Doot Office Address:	Austin, TX 787			
Post Office Address:	Same as above U.S.A.	e. - Country of Citizenship: U	ς Λ	
	U.U.A.	Quantity of OllizonSHIP. U	∪ ∧	

 Full name of fourth in	ventor: MeLISA J. Buie	
Inventor's signature:	Date:	
Residence:	1049 Windsor Street San Jose, CA 95129	
Post Office Address:	Same as above. U.S.A. Country of Citizenship: USA	
Full name of fifth inve	ntor: Turgut Sahin	
Inventor's signature:	Date:	
Residence:	11110 Chadwick Place Cupertino, CA 95014	
Post Office Address:	Same as above. U.S.A. Country of Citizenship: USA	
Full name of sixth inve	······	1.12
Inventor's signature:	Date:	11/17/03
Residence:	1337 Glen Haven Drive San Jose, CA 95129	7
Post Office Address:	Same as above. U.S.A. Country of Citizenship: China	

126897_2

Asablw	nam d inventor, I hereby declare that:
This declara	tion is of the following type:
	original divisional continuation continuation-in-part
	INVENTORSHIP IDENTIFICATION
am the origi inventor (if p	e, post office address and citizenship are as stated below next to my name. I believe nal, first and sole inventor (if only one name is listed below) or an original, first and join plural names are listed below) of the subject matter which is claimed and for which aught on the invention entitled:
	RATED PHASE ANGLE AND OPTICAL CRITICAL DIMENSION MEASUREMENT TROLOGY FOR FEED FORWARD AND FEEDBACK PROCESS CONTROL
	SPECIFICATION IDENTIFICATION
The specific	ation of which:
	is attached hereto was filed on, under Serial No, executed on even date herewith or Express Mail No.(as Serial No. not yet known) and was amended on (if applicable) was described and claimed in PCT International Application No filed on and as amended under PCT Article 19 on
	ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR
	te that I have reviewed and understand the contents of the above-identified specification claims, as amended by any amendment referred to above.
with Title 37 application;	ge the duty to disclose all information I know to be material to patentability in accordance (Code of Federal Regulations, §1.56, and which is material to the examination of this namely, information where there is a substantial likelihood that a reasonable Examine der it important in deciding whether to allow the application to issue as a patent, and
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	\boxtimes	No such a	pplications have be	en filed.		
		Such appli	cations have been	filed as follows:		
A.				led within 12 mos. (6 under 35 U.S.C. §119	mos. for design) prior to	this
	Coun	try/PCT	Application No	Date Filed	Priority Claime	<u>)d</u>
					Yes N	lo lo lo
В.		eign applic	ation(s), if any, file	ed more than 12 mos. (6 mos for design) prior to	this
	Country Applica Filing d	ition No:				
C.	U.S. Pi	ovisional /	Application filed w	rithin 12 months prior	to this application	
	<u>Serial</u>	No.		Filing Date		
					,	
			PRIORITY C	LAIM (35 U.S.C. §120)		
applicatisted by the states of this Examiration which capplication is the states of th	tion(s) of elow and those p Code, § application occurred	r PCT inter d, insofar as rior applica 112, I acknotion (name d consider i	national application s the subject matte tion(s) in the man owledge the duty to ly, information what t important in decidate filing date of the	n(s) designating the Unit of each of the claims of the provided by the first of disclose information the tiere there is substantioning whether to allow the	e, §120, of any United States of America that of this application is not discount paragraph of Title 35, Unat is material to the examinal likelihood that a reaso application to issue as a patte national or PCT internation	is/are losed Inited nation nable atent)
			pplications have be ications have been			
					Status	
	Serial I	<u>vo</u> . <u>Fi</u>	ling Date	<u>Patented</u>	Pending Aband	<u>oned</u>

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Donald Verplancken Registration No. 33,217 Peter J. Sgarbossa Registration No. 25,610 Raymond Kam-On Kwong Registration No. 37,165 Joseph Bach Registration No. 37,771 James C. Wilson Registration No. 35,412 Robert W. Mulcahy Registration No. 25,436 B. Todd Patterson Registration No. 37,906 Raymond R. Moser, Jr. Registration No. 34,682 Keith M. Tackett Registration No. 32,008

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U.S.A.

B. Todd Patterson Moser, Patterson & Sheridan, L.L.P.

(713) 623-4844

DECLARATION

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Full name of sole or f i	rst inventor:	ALFRED W. MAK		
Inventor's signature:			Date:	
Residence:	32722 Fellow	s Court		
	Union City, C	A 94587		
Post Office Address:	Same as abo	ve.		
	U.S.A.	Country of Citizenshi	p: USA	
Full name of second i	nventor: Yung	-HEE YVETTE LEE		
Inventor's signature:			Date:	
Residence:	7167 Brisban	e Court		
	San Jose, CA	95129		
Post Office Address:	Same as abo	ve.		
	U.S.A.	Country of Citizenshi	p: USA	
Full name of third inve	entor: CYNT	HIA B. BROOKS		
Inventor's signature:	Cunt	In Black	Date:	2/3/2003
Residence:	111 Franklin I	Blvd.		77
	Austin, TX 78			•
Post Office Address:	Same as abo			

Country of Citizenship: USA

full name of f urth inv	entor: MELISA	J. Buie	
nventor's signature:			_ Date:
Residence:	1049 Windsor San Jose, CA	Street	
Post Office Address:	Same as above	€.	
	U.S.A.	Country of Citizenship: U	SA
Full name of fifth inven	tor: Turgu	T SAHIN	
nventor's signature:			_ Date:
Residence:	11110 Chadwid	ck Place	
	Cupertino, CA		
Post Office Address:			
	U.S.A.	Country of Citizenship: U	SA
Full name of sixth inve	ntor: JIAN DI	ING	
nventor's signature:			_ Date:
Residence:	1337 Glen Hav	en Drive	
	San Jose, CA 9		
Post Office Address:			
	U.S.A.	Country of Citizenship: C	China

126897_2

As a below named inventor, I hereby declare that:
This d claration is of the following type:
original divisional continuation continuation-in-part
INVENTORSHIP IDENTIFICATION
My residence, post office address and citizenship are as stated below next to my name. I believe am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:
INTEGRATED PHASE ANGLE AND OPTICAL CRITICAL DIMENSION MEASUREMENT METROLOGY FOR FEED FORWARD AND FEEDBACK PROCESS CONTROL
SPECIFICATION IDENTIFICATION
The specification of which:
is attached hereto was filed on, under Serial No, executed on even date herewith; or Express Mail No.(as Serial No. not yet known) and was amended on(if applicable) was described and claimed in PCT International Application No filed on and as amended under PCT Article 19 on
ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR
I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.
I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56, and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

In compliance with this duty there is attached an Information Disclosure Statement in

accordance with 37 CFR §1.98.

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		No such a	pplications have	been filed.				
	Such applications have been filed as follows:							
A.		_	application(s) any priority clair		•	os. for desi	gn) prior to this	
	Count	ry/PCT	Application No	<u>!</u>	Date Filed	<u>Pric</u>	ority Claimed	
				,			Yes No Yes No	
В.	this	ign applic	ation(s), if any,	filed more	than 12 mos.	(6 mos for	design) prior to	
	Country Applicat Filing da	ion No:						
C.	U.S. Pro	ovisional A	Application filed	within 12 i	nonths prior to	this applica	tion-	
	Serial N	<u>lo.</u>		Filing	Date			
			PRIORITY	CLAIM (35	U.S.C. §120)			
applica listed I disclos United examin reason ssue a	ation(s) or pelow and the color of the color of a color	PCT interrid, insofar lithose price ode, §112 this application which out the property of the p	national applications the subject or application(s) or application(s) or application(s) or application (namely, it in consider it in	on(s) designatter of ein the mann the duty to information apportant in the filing design.	nating the United ach of the claid er provided by to disclose infort where there is deciding whether	d States of Arms of this a the first paragration that is substantial er to allow the	y United States merica that is/are pplication is not graph of Title 35, is material to the likelihood that a ne application to and the national	
		•	oplications have cations have bee		ollows:			
						Status		
	Serial N	<u>o</u> . <u>Fil</u>	ing Date	Pate	nted	Pending	Abandoned	

I her by appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Donald Verplancken Registration No. 33,217 Peter J. Sgarbossa Registration No. 25,610 Raymond Kam-On Kwong Registration No. 37,165 Joseph Bach Registration No. 37,771 James C. Wilson Registration No. 35,412 Robert W. Mulcahy Registration No. 25,436 B. Todd Patterson Registration No. 37,906 Registration No. 34,682 Raymond R. Moser, Jr. Keith M. Tackett Registration No. 32,008

.Send correspondence to:

Direct telephone calls to:

Patent Counsel
Applied-Materials, Inc.
P.O. Box 450-A
Santa Clara, CA 95052

U.S.A.

B. Todd Patterson Moser, Patterson & Sheridan, L.L.P. (713) 623-4844

DECLARATION

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Full name of sole or fi	rst inventor:	ALFRED W. MAK
Inventor's signature:		Date:
Residence:	32722 Fellows	
	Union City, CA	94587
Post Office Address:	Same as above	
	U.S.A.	Country of Citizenship: USA
Full name of second in	nventor: Yung-H	lee Yvette Lee
Inventor's signature:		Date:
Residence:	7167 Brisbane	
,	San Jose, CA 9	5129
Post Office Address:	Same as above	•
	U.S.A.	Country of Citizenship: USA
Full name of third inve	entor: CYNTHI	A B. BROOKS
Inventor's signature:		Date:
Residence:	111 Franklin Bl	
	Austin, TX 7875	51
Post Office Address:	Same as above	

Country of Citizenship: USA

Full name of fourth inv	rentor: Melis	A J. BUIS		•	
Inventor's signature:	Miloc	r ///	Date:	11/16/03	
R sidence:	1049/Windsor	Street		1	
	San Jose, CA	95129			
Post Office Address:	•				
-		Country of Citizen	ship: USA		
Full name of fifth inver	ntor: Turg u	JT SAHIN			
Inventor's signature:			Date:		
Residence:	11110 Chadwi	ck Place			
	Cupertino, CA	95014			
Post Office Address:	•				
		Country of Citizen	ship: USA		
Full name of sixth inve	entor: JIAN D	MNG			
Inventor's signature:		-	Date:		
Residence:	1337 Glen Hav	ven Drive			
	San Jose, CA	95129			
Post Office Address:	Same as above				
		Country of Citizen	ship: China		

med inventor, I hereby declare that:							
n is of the following type:							
original divisional continuation continuation-in-part							
INVENTORSHIP IDENTIFICATION							
My residence, post office address and citizenship are as stated below next to my name. I believe am the original, first and sole inventor (if only one name is listed below) or an original, first and join inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:							
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•							
	\boxtimes	No suc	n applications hav	e been filed.			
		Such a	oplications have b	een filed as follows:			
A.	Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. §119						
	<u>Cour</u>	ntry/PCT	Application N	lo Date i	Filed	Priority Clai	med
						☐ Yes ☐ ☐ Yes ☐ ☐ Yes ☐	No No No
В.		eign app pplicatio		, filed more than 12	mos. (6 mos foi	r design) prio	to this
	Countr Applica Filing o	ation No:					
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	<u>Serial</u>	No.		Filing Date			
			PRIORIT	Y CLAIM (35 U.S.C.	§120)		
applica listed b in that/ States of this Examir which o	tion(s) of elow and those p Code, § application aer would occurred	or PCT ind, insofar d, insofar rior appli 112, I ac dion (nar diconside	ternational application as the subject macation(s) in the macation(s) in the macanowledge the durinely, information or it important in detention the filing date of the subject and the filing date of the subject and the sub	35, United States ation(s) designating that ter of each of the clanner provided by the total discussion of the clanner provided by the total discussion of the prior application (state).	ne United States aims of this appli the first paragraption that is mate ostantial likelihoow the application	of America that cation is not display of Title 35, rial to the example that a reason to issue as a	at is/are sclosed United mination sonable patent)
	\boxtimes		applications have	been filed en filed, as follows:			
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	Serial I	No.	Filing Date	Patented	Pendir	ng Ahar	ndoned

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Inventor's signature:			Date:
Residence:	32722 Fellows	Court	
	Union City, CA	\ 94587	
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Full name of second i	nventor: Yung-	HEE YVETTE LEE	
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Residence:	7167 Brisbane	Court	
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Full name of third inve	entor: CYNTH	HA B. BROOKS	
Inventor's signature:			Date:
Residence:	111 Franklin B	llvd.	
	Austin, TX 787	751	
Post Office Address:	Same as abov	e.	
	U.S.A.	Country of Citizenship:	USA

Full name of fourth inv	entor: MELISA J. BUIE	
Inventor's signature:		Date:
Residence:	1049 Windsor Street San Jose, CA 95129	
Post Office Address:	Same as above.	
	U.S.A. Country	of Citizenship: USA
Full name of fifth inven	tor: Turgut Sahin	
Inventor's signature:		Date: Jan, 7, 2001
Residence:	11110 Chadwick Place	
	Cupertino, CA 95014	
Post Office Address:	Same as above. U.S.A. Country	of Citizanahin, LICA
	U.S.A. Country	of Citizenship: USA
Full name of sixth inve	ntor: JIAN DING	
Inventor's signature:		Date:
Residence:	1337 Glen Haven Drive San Jose, CA 95129	
Post Office Address:	Same as above.	
	U.S.A. Country	of Citizenship: China

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